

Spectrometer Illuminates Shang Dynasty Bronze Ware

A guide to collecting archaic Chinese bronze vessels, from inscriptions and origins to purpose and provenance, illustrated with examples offered at Christie's

The bar chart shows types of solders used in bronze artefacts from the Shang dynasty to the Warring States period. The alloy compositions of the solders, locations of sampling, and analytical methods ...

About 220 bronze artifacts of the Shang Dynasty from Anyang site have been first analyzed by atomic absorption spectrometry. The details of the sampling, analytical procedure and standard...

The combination of different nuclear techniques--gamma spectrometry, n-CT, and PIXE--was applied to non-destructively investigate the authenticity of a Shang dynasty wine bronze ...

Over three thousand years ago the legendary Shang Dynasty produced mesmerizing and mysterious bronzes whose symbolism and meaning still eludes us. The Shang dynasty emerged at ...

In this period, the bronze vessels were evenly shaped with thin wall and decorated with simple designs. The piece-mold casting became sophisticated. Patterns of animal mask and turquoise inlays ...

Gamma spectrometry, neutron-computed tomography, and proton-induced X-ray emission (PIXE) spectroscopy were applied to gain a better insight into the structural and ...

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Chinese civilization made great advances as it emerged from the Neolithic period and entered the Bronze Age. One factor in this change was the ability to locate and extract natural deposits of copper ...

Many of the bronze wares have names and/or stories written on them in ancient Chinese characters, providing key evidences for the well-developed Yin-Shang bronze civilization and history ...

According to the study, in the late Shang Dynasty, the Haidai area had significant ties to the Central Plains area where Yin Ruins are located, offering new evidence for the relationship between ...

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